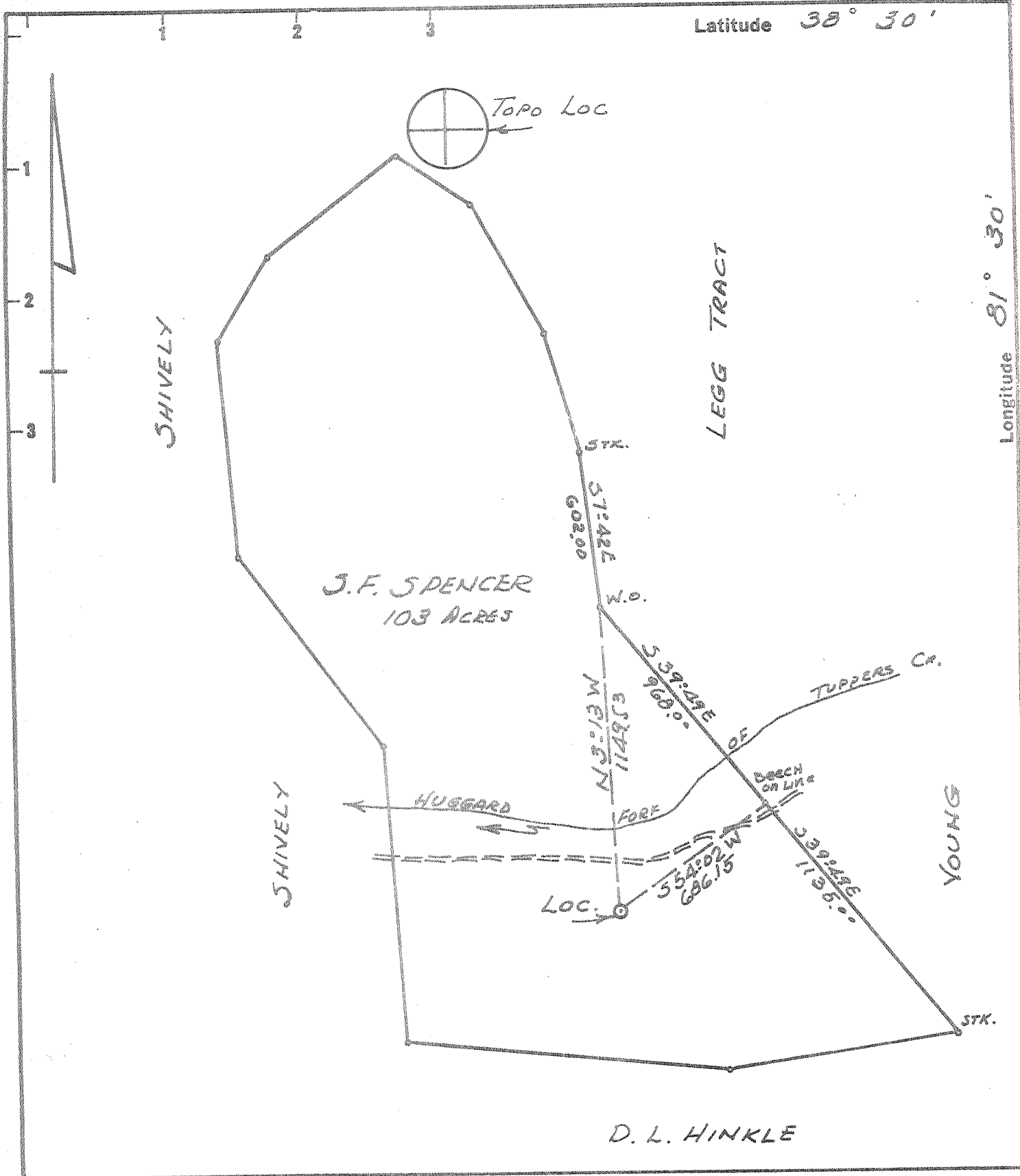


Latitude $38^{\circ} 30'$

Longitude $81^{\circ} 30'$



D. L. HINKLE

New Location
 Drill Deeper
 Abandonment
 12-11-73

Minimum Error of Closure $1 \text{ IN } 200$
 Source of Elevation $\text{BM Elev. } 703' \text{ Mo. HUGGARD FORK}$

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company ~~HARRY S. HOLTON, INC.~~
~~P.O. Box 1036, Travers City, Mich~~
~~NORTHINGTON, OHIO~~
 Address ~~TRAVERSE CORP.~~
 Farm J.F. SPENCER (DONNALLY UNIT)
 Tract _____ Acres 103 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 802.5 827'
 Quadrangle CHARLESTON NE
 County KANAWHA District POCA
 Engineer N. S. Dyer
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 5-9-70 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Kan-2469-P
Corrected Elev.

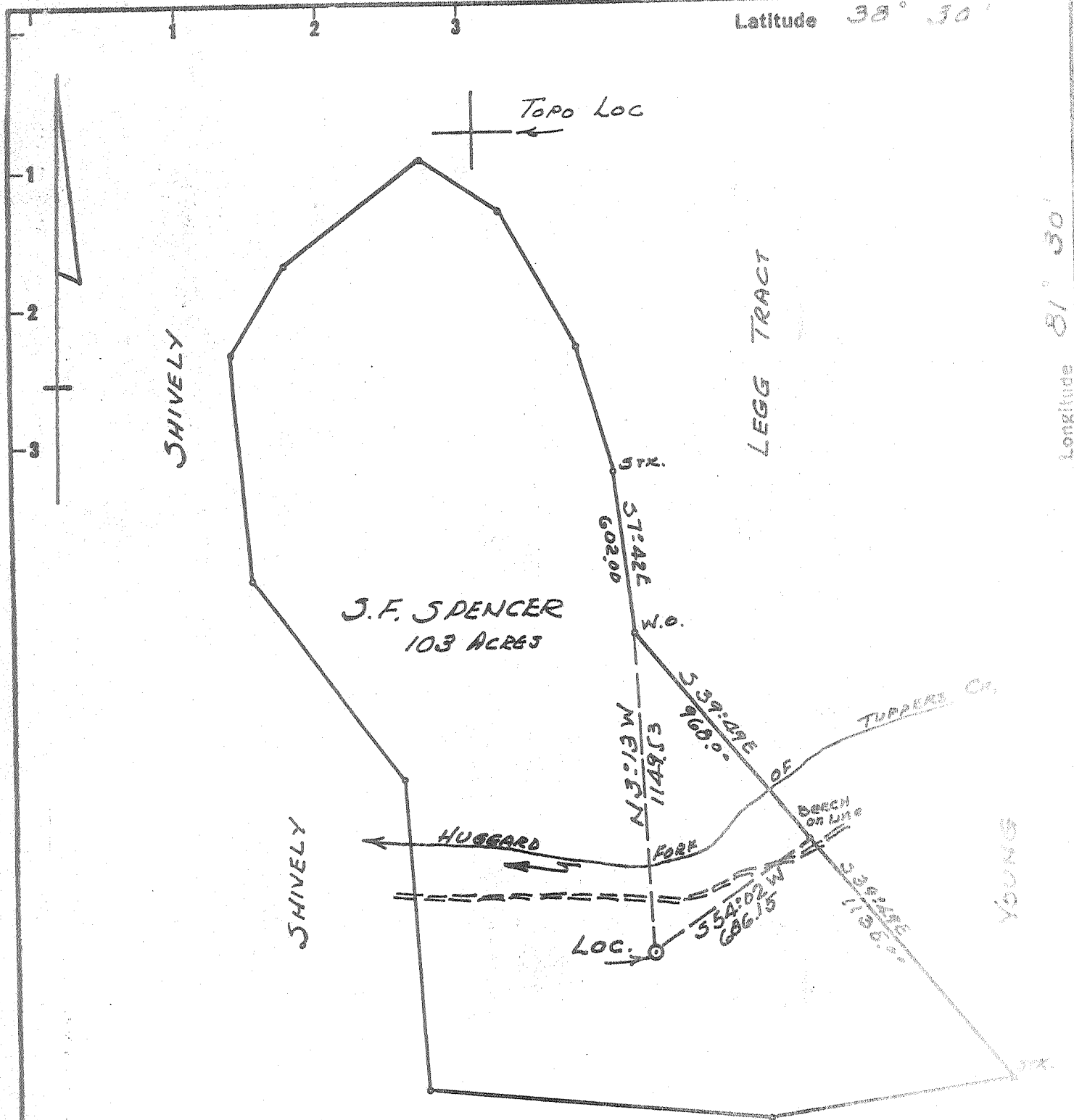
* Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

DEC 21 1973

Latitude 38° 30'

Longitude 81° 30'



7.5 mm O.S.T.S. Lic
38° 30' 0.935
81° 32' 30" 1.82w
15 mm
.935
4.08w

D. L. HINKLE

New Location
Drill Deeper
Abandonment

Minimum Error of Closure 1 in 200
Source of Elevation BM Elev. 703' Mo. HUGGARD FERR

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company HARRY A. HOLTOM, INC.
 Address WORTHINGTON, OHIO
 Farm J.F. SPENCER (DONNALLY UNIT)
 Tract _____ Acres 103 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 802.5 827'
 Quadrangle CHARLESTON NE
 County KANAWHA District POCA
 Engineer N. L. Sefton
 Engineer's Registration No. 1032
 File No. _____ Drawing No. _____
 Date 5-9-70 Scale 1" = 500'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

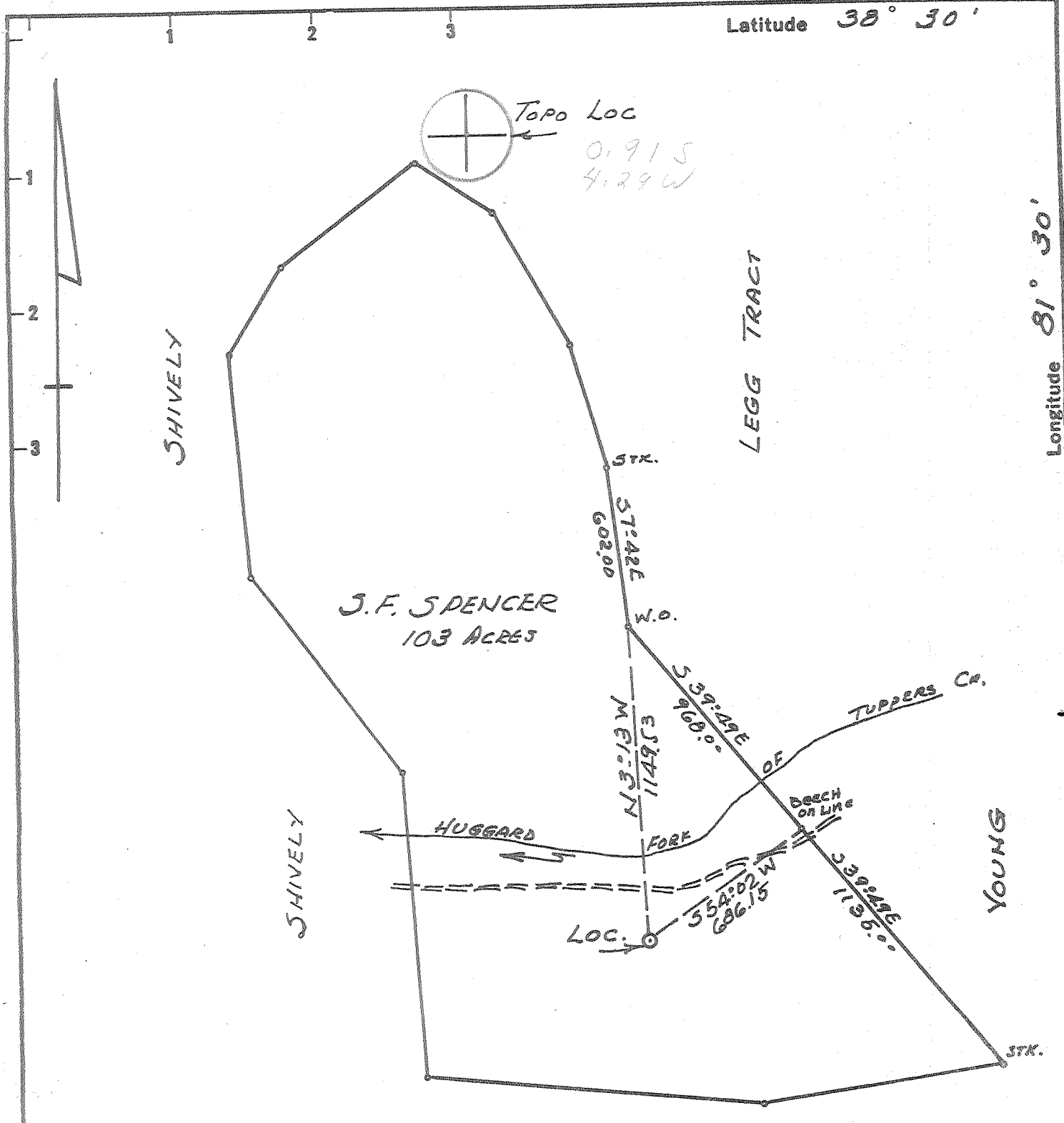
WELL LOCATION MAP
FILE NO. Kan-2469
Corrected Elev.

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border lines of original tracing.

Latitude $38^{\circ} 30'$

Longitude $81^{\circ} 30'$



D. L. HINKLE

- New Location
- Drill Deeper
- Abandonment

Minimum Error of Closure $1 \text{ in } 200$
 Source of Elevation BM Elev. 703' Mo. HUGGARD FORK

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 County KANAWHA District POCA
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 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Kan-2469

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.
 - Denotes one inch spaces on border line of original tracing.

6-6 Cooper Creek 331

Deep Well
 (Newburgh)

JUN 29 1970



RECEIVED

OCT 13 1970

38-30
3-1

OIL & GAS DIVISION
DEPT. OF MINES

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Spudder
- Cable Tools
- Storage

Quadrangle Charleston
Permit No. KAN-2469

WELL RECORD

Oil or Gas Well Gas (KIND)

Company Harry A. Holtom
Address 808 High St., Worthington, Ohio
Farm Spencer Acres Pt. 103
Location (waters) Huggard-Branch of Tappers Creek
Well No. #1 Elev. 830 G. L.
District Poca County Kanawha
The surface of tract is owned in fee by Bob Ray Shabdue
Address Sissonville, West Va.
Mineral rights are owned by Harry A. Holtom & Cities Service Oil Co.
Address 808 High St. Worthington, Ohio
Drilling commenced 7/16/70
Drilling completed 7/31/70
Date Shot 8/8/70 From 5682' To 5767
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume Four Point AOF 36.1 MCF Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) _____
WELL FRACTURED (DETAILS) Frack w/500 gal. MCA, 1200 B. W. & 30,000 # 20/40 mesh sand
Average injection rate 26.7 BPM @ 4045#
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 36.1 MMCFGPD 36,100 MCF GPD 36,100,000
ROCK PRESSURE AFTER TREATMENT 2119 HOURS.
Fresh Water _____ Feet. Salt Water _____ Feet.
Producing Sand Newburg Depth 5715

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13 3/8"	74'	74'	
10			Size of
8 5/8"	1812'	1812'	
6 1/2"			Depth set
5 1/2"	5682'	5682'	
4 1/2"			
3			Perf. top
2 3/8" Tub.		5727'	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED 5 1/2" SIZE 5682 No. Ft. 7/29/70 Date
Amount of cement used (bags) 175 saks cmt. 60 saks jel.
Name of Service Co. Dowell
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES
_____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Sand & Shale	Grey	Soft	Surface	1073			
Salt Sand	Grey	Hard	1073	1145			
Sand & Shale	Grey-Tan	Soft	1145	1680			
Injun Sand	Grey	Soft	1680	1744			
Shale	Grey	Soft	1744	2387			
Berea	Tan	Hard	2387 - ^{too deep!}	2402			
Shale	Grey	Soft	2402	4812			
Onondaga	Cream	Hard	4812	4926			
Oriskany	White	Hard	4926	5005			
Helderberg	Cream	Hard	5005	5710			
Newburg	White	Hard	5710	5767	Gas	5715	

Date 10/9 1970
Approved Harry Holtom Owner
Harry A. Holtom

OCT 24 1970